Enterprise Service Specification



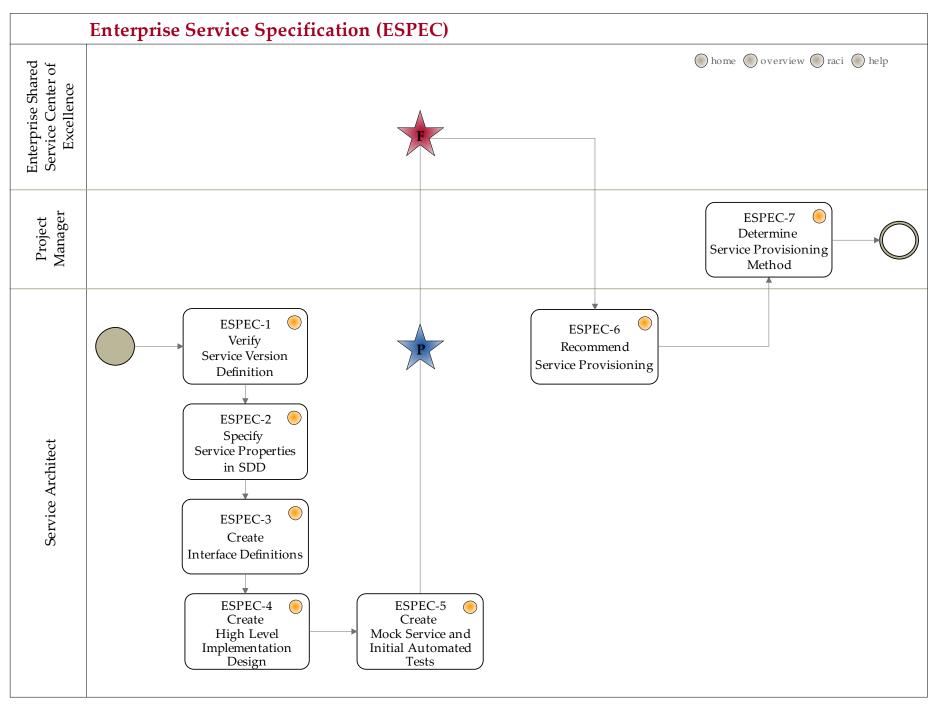
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Enterprise Service Specification Process Map



Process: Enterprise Service Specification

Overview: The process map for Enterprise Service Specification cycles through the following process and review activities:

ESPEC-1 Verify Service Version Definition

ESPEC-2 Specify Service Properties in SDD

ESPEC-3 Create Interface Definitions

ESPEC-4 Create High Level Implementation Design

ESPEC-5 Create Mock Service and Initial Automated Tests

ESPEC-PR1 Conduct Peer Review of Service Specification Compliance

ESPEC-FR1 Conduct Formal Review of Service Specification Compliance

ESPEC-6 Recommend Service Provisioning

ESPEC-7 Determine Service Provisioning Method

Enterprise Service Specification Description and Goals Description

The Enterprise Service Specification (ESPEC) process refines the preliminary requirements for a Service and produces descriptions in sufficient detail to define the messages, message content, and resulting behavior per the Service Charter. When services are reused, any additional requirements are addressed in the Service Description and new Service version process. The ESPEC process verifies that the new or enhanced service follows the architectural principles and standards as specified in the enterprise Messaging Infrastructure (eMI) governance and the VA Enterprise Architecture (EA) Enterprise Technical Compliance Criteria. The provisioning method for delivering the service is selected.

The ESPEC process is initiated by an approved project Business Requirements Document at Milestone 0. The Service Description and system design aspects are completed prior to Milestone 1.

The Enterprise Shared Service Center of Excellence (ESS-CoE) maintains governance over service specifications using the ESPEC process.

Goals

The goals of the Enterprise Service Specification process are to:

- Provide specific interface information, security requirements, and behavior information to allow the Service Integrator to complete the service Provisioning Phase of the Service Planning and Development Lifecycle
- Create or associate the design diagrams, applicable technical specifications, and service operations for the service
- Identify design dependencies associated with the service
- Define the service interface messages, message content and behavior
- Provide the essential information needed to determine the appropriate provisioning method for the service

Enterprise Service Specification RACI Information

The following describes the RACI information for this process:

ESPEC-1 Verify Service Version Definition

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Business Analyst, Business Owner, Service Owner

ESPEC-2 Specify Service Properties in SDD

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Business Analyst, Business Owner, Service Consumer, Service Owner

ESPEC-3 Create Interface Definitions

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Service Integrator

Informed Role: Enterprise Shared Service Center of Excellence, Service Consumer, Service

Owner

ESPEC-4 Create High Level Implementation Design

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Service Integrator
Informed Role: Service Consumer

ESPEC-5 Create Mock Service and Initial Automated Tests

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Service Provider

Informed Role: Service Consumer, Service Integrator

ESPEC-PR1 Conduct Peer Review of Service Specification Compliance

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Informed Role: Service Integrator

ESPEC-FR1 Conduct Formal Review of Service Specification Compliance

Responsible Role: Enterprise Shared Service Center of Excellence

Accountable Role: Chairs, Enterprise Shared Services Center of Excellence

Consulted Role: Service Architect

Informed Role: Business Owner, Domain Related FoSIM Team, Project Manager, Service

Integrator, Service Owner, Service Provider

ESPEC-6 Recommend Service Provisioning

Responsible Role: Service Architect

Accountable Role: Domain Related FoSIM Team

Consulted Role: Service Provider

Informed Role: Service Consumer, Service Integrator

ESPEC-7 Determine Service Provisioning Method

Responsible Role: Project Manager Accountable Role: Service Owner

Consulted Role: Service Integrator, Service Provider

Informed Role: Business Owner, Domain Related FoSIM Team, Enterprise Shared Service

Center of Excellence, Service Architect

Enterprise Service Specification Process

Process Activity Name: ESPEC-1 Verify Service Version Definition

Previous Process Activity

None

Next Process Activity

ESPEC-2 Specify Service Properties in SDD

Description

The Service Architect reviews the Requirements Specification Document, for System or Epic, the associated Service Description (for a new service version), and verifies the software capability for the service is adequate for the service definition and Service Charter contained in the Service Description. The Service Description defines the set of operations needed independent of technology solutions. The review of the Service Description ensures the service identification characteristics and assigned service responsibilities are accurate, business function(s) satisfied by the service are defined, service version is defined, service type is correct, and the Quality of Service requirements are included. The Service Registration is updated as needed. For services that are in an operational phase, the current Service Level Agreement is verified and revised if needed.

Artifacts Used

Business Requirements Document Requirements Specification Document Service Description(s) Service Level Agreement(s) Service Registration

Artifacts Created

Service Description(s) (Updated)
Service Level Agreement(s) (New or Updated)
Service Registration (Updated)
WebSphere Service Registry and Repository (WSRR) Role Request Form

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

VA EA Home

Standards

None Listed

More Info

The ESS Strategy is referenced on the VA EA ESS Center of Excellence page.

Refer to the eMI WIKI Technical Corner How To? and eMI SOA Governance sections for services creation methods and policies for design-governance of SOA-based services.

For Developer access to the Service Registry, new users need to complete the WebSphere Service Registry and Repository (WSRR) Role Request Form and submit to the VA eMI Support mail group.

Process Activity Name: ESPEC-2 Specify Service Properties in SDD

Previous Process Activity

ESPEC-1 Verify Service Version Definition

Next Process Activity

ESPEC-3 Create Interface Definitions

Description

The Service Architect references the Service Description, Service Roadmap, and includes relevant service identification information in the high-level System Design Document (SDD) with service level definition section from the Service Description.

For services in production, production service's Service Description is referenced in the SDD and a link to the Service Description is provided.

Artifacts Used

Service Description(s)
Service Level Agreement(s)
Service Roadmap(s)
System Design Document

Artifacts Created

System Design Document (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

None Listed

More Info

The System Design Document template includes a section, Service Oriented Architecture / Enterprise Shared Service (ESS) Detailed Design, for service identification.

Refer to the eMI WIKI Technical Corner How To? and eMI SOA Governance sections for services creation methods and policies for design-governance of SOA-based services.

Process Activity Name: ESPEC-3 Create Interface Definitions

Previous Process Activity

ESPEC-2 Specify Service Properties in SDD

Next Process Activity

ESPEC-4 Create High Level Implementation Design

Description

The Service Architect creates service interface definitions and service operation specifications which are adequate for use by service consumers. These are added to the Services Description and the service specification and implementation architecture views are revised as needed.

Artifacts Used

Service Description(s) Service Implementation Architecture Service Specification Architecture

Artifacts Created

Service Description(s) (Updated) Service Implementation Architecture (Updated) Service Specification Architecture (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

None Listed

More Info

Refer to the VA EA Home Enterprise Shared Services / Service Oriented Architecture (SOA) Organization for the Advancement of Structured Information Standards (OASIS) SOA Reference Model to explain the relationships and interfaces between service providers and consumers and SOA terminology.

Refer to the eMI WIKI Technical Corner How To? and eMI SOA Governance sections for services creation methods and policies for design-governance of SOA-based services.

Process Activity Name: ESPEC-4 Create High Level Implementation Design

Previous Process Activity

ESPEC-3 Create Interface Definitions

Next Process Activity

ESPEC-5 Create Mock Service and Initial Automated Tests

Description

The Service Architect reviews the Service Specification Architecture diagrams and the Service Implementation Architecture and provides a high level description of the interface components.

The Service Architect incorporates these into the Service Description and the service identification section of the System Design Document.

Artifacts Used

Service Description(s) Service Implementation Architecture Service Specification Architecture System Design Document

Artifacts Created

Service Description(s) (Updated) Service Implementation Architecture (Updated) Service Specification Architecture (Updated) System Design Document (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

None Listed

More Info

The System Design Document template includes a section, Service Oriented Architecture / Enterprise Shared Service (ESS) Detailed Design, for service identification.

Refer to the eMI Wiki Technical Corner How To? and eMI SOA Governance sections for services creation methods and policies for design-governance of SOA-based services.

Process Activity Name: ESPEC-5 Create Mock Service and Initial Automated Tests

Previous Process Activity

ESPEC-4 Create High Level Implementation Design

Next Process Activity

ESPEC-PR1 Conduct Peer Review of Service Specification Compliance

Description

The Service Architect creates a Mock Service that responds with standards messages that are sufficient to allow the Service Consumers to test their usage of service within the solution. The Mock Service allows for the generation of an initial set of automated tests for use prior to the completion the remaining service provisioning activities.

Artifacts Used

Service Description(s) Service Implementation Architecture Service Specification Architecture

Artifacts Created

Initial Automated Tests Mock Service Service Description(s) (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

IBM Rational Team Concert/Change and Configuration Management (RTC/CCM)

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

None Listed

More Info

Refer to the One-VA Technical Reference Model for approved system testing tools that may be useful for developing the Mock Service and Initial Automated Tests.

Refer to the eMI WIKI Technical Corner for additional guidance.

Process Activity Name: ESPEC-PR1 Conduct Peer Review of Service Specification Compliance

Previous Process Activity

ESPEC-5 Create Mock Service and Initial Automated Tests

Next Process Activity

ESPEC-FR1 Conduct Formal Review of Service Specification Compliance

Description

The Service Architect has another Service Architect review Service Description and System Design Document for consistency. The service design, the Service Implementation Architecture and Service Specification Architecture are reviewed by the Integrated Project Team and for accuracy and completeness for the Service Description. The Service Architect has the documents review findings and resolves the inconsistencies uncovered during the review. When the review findings are addressed, the Service Architect informs Enterprise Shared Service Center of Excellence, Service Owner, and other stakeholders that the service is ready for a formal Service Specification Compliance Review. The Service Architect updates the Service Registry and verifies all required documents have been checked into the Technical Services Project Repository (TSPR).

Artifacts Used

Initial Automated Tests
Mock Service
Service Description(s)
Service Implementation Architecture
Service Registry Entry
Service Specification Architecture
System Design Document

Artifacts Created

Initial Automated Tests (Updated)
Mock Service (Updated)
Review Findings Summary
Service Implementation Architecture (Updated)
Service Registry Entry (Updated)
Service Specification Architecture (Updated)
System Design Document (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

IBM Rational Team Concert/Change and Configuration Management (RTC/CCM)

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

Quality Assurance Standard

More Info

Refer to the eMI Wiki Technical Corner, eMI Software Oriented Architecture (SOA) Governance section for policy and guidelines.

Process Activity Name: ESPEC-FR1 Conduct Formal Review of Service Specification Compliance

Previous Process Activity

ESPEC-PR1 Conduct Peer Review of Service Specification Compliance

Next Process Activity

ESPEC-6 Recommend Service Provisioning

Description

The Enterprise Shared Service Center of Excellence (ESS-CoE) conducts and facilitates a formal review of the service design for compliance with the enterprise Messaging Infrastructure policies and guidelines and the VA Enterprise Architecture (EA) Enterprise Technical Architecture (ETA) Compliance Criteria. The ESS-CoE assigns appropriate Service Architects and Subject Matter Experts to conduct the review of the Service Description, related service specification documents, and the System Design Document for compliance. The ESS-CoE issues an Assertion of Design Compliance against the System Design Document which authorizes development to begin in the Provisioning Phase.

Artifacts Used

Initial Automated Tests Mock Service Review Findings Summary Service Description(s) Service Implementation Architecture Service Specification Architecture System Design Document

Artifacts Created

Assertion of Design Compliance

Responsible Role

Enterprise Shared Service Center of Excellence

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

IBM Rational Team Concert/Change and Configuration Management (RTC/CCM)

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

Quality Assurance Standard

VA EA Enterprise Technical Architecture (ETA) Compliance Criteria

More Info

VA EA ESS Center of Excellence Charter describes roles and responsibilities.

Process Activity Name: ESPEC-6 Recommend Service Provisioning

Previous Process Activity

ESPEC-FR1 Conduct Formal Review of Service Specification Compliance

Next Process Activity

ESPEC-7 Determine Service Provisioning Method

Description

The Service Architect notifies the Service Owner that all service design elements are complete, service design compliance criteria has been met, and the service is ready to provision.

Artifacts Used

Assertion of Design Compliance Service Registry Entry

Artifacts Created

Notification of Service Ready for Provisioning Service Registry Entry (Updated)

Responsible Role

Service Architect

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

IBM Rational Team Concert/Change and Configuration Management (RTC/CCM)

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

None Listed

More Info

Refer to the eMI WIKI Technical Corner, eMI Software Oriented Architecture (SOA) Governance section for policy and guidelines.

Process Activity Name: ESPEC-7 Determine Service Provisioning Method

Previous Process Activity

ESPEC-6 Recommend Service Provisioning

Next Process Activity

None

Description

The Project Manager uses the approved Service Description which includes the Service Charter to determine how to best achieve the service design by purchasing a Commercial Off-The-Shelf

(COTS) solution, reusing a Government off-the-shelf (GOTS) solution, or building a solution inhouse. The Project Manager identifies the actions needed to provision the service(s) in accordance with the Service Charter(s). The Project Manager updates Service Description with the determination and proceeds to work with the Service Owner to initiate the actions needed to provision the Service.

Artifacts Used

Notification of Service Ready for Provisioning Service Description(s)

Artifacts Created

Estimated Resources and Funding for Service Provisioning Service Description(s) (Updated) Service Provisioning Method

Responsible Role

Project Manager

Tools and Websites

Enterprise Messaging Infrastructure (eMI) WIKI Home

IBM Rational Team Concert/Change and Configuration Management (RTC/CCM)

One-VA Technical Reference Model

Rational Software Architect

Service Registry Dashboard

Technical Services Project Repository (TSPR)

VA EA ESS Center of Excellence

VA EA Home

Standards

VA Enterprise Shared Services Strategy

More Info

The Service Owner follows the VA Enterprise Shared Service Strategy in formulating Acquisition Strategy and an analysis of alternatives when the provisioning method is a buy of the service.

The provisioning method for enhancing an existing service is to reuse an existing service.

END OF PROCESS